

COPPER-GARD

Guide Specifications

GENERAL

Underground piping system shall be Ricwil COPPER-GARD and shall consist of integral sealed, 20-foot long units of copper tubing insulated with rigid polyurethane foam which is protected with a PVC outer jacket and factory-applied vapor barrier on the ends of the insulation.

MATERIALS

Basic Pipe Units

Pipe shall be type "K" or "L" (ASTM B-88) Copper Tubing.

Insulation shall be rigid, 90-95 percent closed-cell polyurethane with a 1.9 to 2.1 pound per cubic foot density and a coefficient of thermal conductivity (K) of .14 BTU/(HR.) (SQ. FT.) (F/IN.) at 73 F.

Jacket shall be Type I Grade I Polyvinyl Chloride with a minimum wall thickness of .060 inches.

Joints

Couplings shall be machine grooved for O-Ring seals. Coupling shall be insulated, jacketed and sealed.

All fittings shall be ASA B16.22 wrought copper fittings. Solder joints shall be made with silver solder or brazing alloys melting at above 1100 F. 50-50 tin lead solders are not acceptable.

INSTALLATION AND TESTING

All pipes, fittings, and O-Ring slip couplings shall be installed in accordance with the manufacturer's recommendations.

All solder joints shall be hydrostatically tested prior to pouring thrust blocks.

Immediately after installation in the ditch, a partial backfill shall be made in the middle of each unit leaving the joints exposed for inspection. After all thrust blocks are poured and cured, a hydrostatic test of _____ psig (or 1 « times operating pressure) shall be required for a period of four hours.

After hydrostatic test, a final backfill of selected earth shall be hand-placed and hand-tamped in 4" layers to 12 inches minimum over the top layer of the jacket. Remainder of the backfill shall be free of large boulders, rocks over 6 inches in diameter, frozen earth, or foreign matter. The backfill operation can now be completed by any convenient means. Do not use tracked or wheeled vehicles for tamping.

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